

WHAT IS CLAIMED IS:

1. A compressor assembly for compressing a gas, said compressor assembly comprising:

a housing having a first inlet;

a compressor mechanism disposed within said housing and defining a working space wherein gas is compressed within said working space, gas entering said working space through a second inlet; and

a baffle surface positioned within said housing and extending from proximate said first inlet to proximate said second inlet, said baffle surface positioned to be impactable by gas entering said housing through said first inlet, said baffle surface directing gas entering said housing in a flow path from said first inlet to said second inlet, said baffle surface defining a baffle opening, said baffle opening positioned between said first inlet and said second inlet, said baffle opening having a length and a width, said length being substantially greater than said width, said length extending in a direction substantially transverse to said flow path, said baffle opening positioned to divert a portion of said gas directed along said flow path through said opening and intercept fluid collected on said baffle surface whereby the fluid is separable, by passage through said baffle opening, from gas entering said second inlet.

2. The compressor assembly of claim 1 further comprising a sheet-like baffle member secured within said housing, said baffle member having a first major surface defining said baffle surface.

3. The compressor assembly of claim 1 wherein said baffle surface is positioned to define a passageway between an interior surface of said housing and said baffle surface.

4. The compressor assembly of claim 3 wherein said housing includes a substantially cylindrical portion, said first inlet disposed in said substantially cylindrical portion, and said baffle surface includes a generally arcuate surface.

5. The compressor assembly of claim 1 wherein said first inlet is positioned at a lower vertical position than said second inlet.

6. The compressor assembly of claim 1 further comprising a sheet-like baffle member secured within said housing, said baffle member having a first major surface defining said baffle surface, said baffle opening having first and second edges extending said

length of said opening, said opening having a configuration wherein a plane connecting said first and second edges is positioned at an angle to said first major surface.

7. The compressor assembly of claim 6 wherein said baffle member defines a depression adjacent said first edge, said depression preceding said first edge in said flow direction.

8. The compressor assembly of claim 6 wherein said compressor mechanism comprises a fixed scroll member and an orbiting scroll member engaged with said fixed scroll member, and a crankcase secured within said housing, said crankcase engageable with said orbiting scroll, said baffle member secured to said crankcase.

9. The compressor assembly of claim 8 wherein said housing includes a generally cylindrical section, said first inlet disposed in said substantially cylindrical portion, and said baffle surface comprising a generally arcuate surface.

10. The compressor assembly of claim 9 wherein said first edge is positioned between said second edge and said housing inlet, said first edge positioned radially inward of said second edge.

11. The compressor assembly of claim 6 wherein said first inlet is positioned at a lower vertical position than said second inlet and an oil sump is disposed within said housing below said baffle member.

12. The compressor assembly of claim 6 wherein said baffle member defines at least one flange along an edge of said baffle member, said flange positioned to direct gas along said flow path.

13. A compressor assembly for compressing a gas, said compressor assembly comprising:

- a housing having a first inlet;
- a motor disposed within said housing;
- a crankcase disposed within said housing and secured relative to said motor;
- a compressor mechanism operably coupled to said motor and defining a working space wherein gas is compressed within said working space, gas entering said working space through a second inlet; and

- a baffle member secured to said crankcase and extending from proximate said first inlet to proximate said second inlet, said baffle member positioned to be impactable by gas entering said housing through said first inlet, said baffle member directing gas entering said housing in a flow path from said first inlet to said second inlet, said baffle member defining a

baffle opening, said baffle opening positioned between said first inlet and said second inlet, said baffle opening having a length and a width, said length being substantially greater than said width, said length extending in a direction substantially transverse to said flow path whereby fluid collected on said baffle member is separable from gas entering said second inlet by passage through said baffle opening.

14. The compressor assembly of claim 13 wherein said baffle member is positioned to define a passageway between an interior surface of said housing and said baffle member.

15. The compressor assembly of claim 14 wherein said housing includes a substantially cylindrical portion, said first inlet disposed in said substantially cylindrical portion, and said baffle member includes a generally arcuate section.

16. The compressor assembly of claim 13 wherein said baffle member is a sheet-like member, said baffle opening having first and second edges extending said length of said opening, said opening having a configuration wherein a plane connecting said first and second edges is positioned at an angle to said baffle member.

17. The compressor assembly of claim 13 wherein said motor includes a rotatable shaft coupled to said compressor mechanism, said shaft positioned substantially horizontally.

18. A compressor assembly for compressing a gas, said compressor assembly comprising:

- a housing having a first inlet;
- a motor disposed within said housing;
- a crankcase disposed within said housing and secured relative to said motor;
- a compressor mechanism operably coupled to said motor and defining a working space wherein gas is compressed within said working space, gas entering said working space through a second inlet; and

- a baffle member secured to said crankcase and extending from proximate said first inlet to proximate said second inlet, said baffle member positioned to be impactable by gas entering said housing through said first inlet, said baffle member directing gas entering said housing in a flow path from said first inlet to said second inlet, said baffle member including an arcuate section, first and second radially outwardly extending flanges disposed at opposite ends of said baffle member, and a third flange extending along an edge of said member between said first and second flanges, said first and second flanges being secured to said

crankcase, said third flange cooperating with said arcuate section and an interior surface of said housing to define a passage between said first inlet and said second inlet.

19. The compressor assembly of claim 18 wherein said baffle member is positioned to define a passageway between an interior surface of said housing and said baffle member.

20. The compressor assembly of claim 19 wherein said housing includes a substantially cylindrical portion, said motor and compressor mechanism being substantially disposed within said cylindrical portion of said housing.

21. The compressor assembly of claim 18 wherein said motor includes a rotatable shaft coupled with said compressor mechanism, said shaft positioned substantially horizontally.

22. The compressor assembly of claim 18 wherein said baffle member comprises a sheet-like member, said baffle member defining a baffle opening positioned between said first inlet and said second inlet, said baffle opening having a length and a width, said length being substantially greater than said width, said length extending in a direction substantially transverse to said flow path.

23. A compressor assembly for compressing a gas, said compressor assembly comprising:

a housing having a first inlet;

a first scroll member and a second scroll member, said first and second scroll members being engageable and defining a working space therebetween wherein gas is compressed within said working space by the relative movement of the first and second scroll members, gas entering said working space through a second inlet;

a motor disposed within said housing;

a crankcase disposed within said housing, said crankcase including a thrust surface engageable with one of said first and second scroll members, a bearing support rotatably supporting a shaft, and a plurality of support members secured to said motor; and

a baffle member secured to said crankcase and extending from proximate said first inlet to proximate said second inlet, said baffle member positioned to be impacted by gas entering said housing through said first inlet, said baffle member directing gas entering said housing in a flow path from said first inlet to said second inlet, said baffle member defining a baffle opening positioned between said first inlet and said second inlet, said baffle opening having a length and a width, said length being substantially greater than said width, said

length extending in a direction substantially transverse to said flow path whereby fluid collected on said baffle member is separable, by passage through said baffle opening, from gas entering said second inlet.

24. The compressor assembly of claim 23 wherein said baffle member is positioned to define a passageway between an interior surface of said housing and said baffle member.

25. The compressor assembly of claim 24 wherein said housing includes a substantially cylindrical portion, said first inlet disposed in said substantially cylindrical portion, and said baffle member includes a generally arcuate section.

26. The compressor assembly of claim 23 wherein said baffle member is a sheet-like member, said baffle opening having first and second edges extending said length of said opening, said opening having a configuration wherein a plane connecting said first and second edges is positioned at an angle to said baffle member.

27. The compressor assembly of claim 23 wherein said motor includes a rotatable shaft coupled to said compressor mechanism, said shaft positioned substantially horizontally.

28. A compressor assembly for compressing a gas, said compressor assembly comprising:

- a housing having a first inlet;

- a compressor mechanism disposed within said housing and defining a working space wherein gas is compressed within said working space, gas entering said working space through a second inlet;

- a baffle surface positioned within said housing and extending from proximate said first inlet to proximate said second inlet, said baffle surface positioned to be impactable by gas entering said housing through said first inlet, said baffle surface directing gas entering said housing in a flow path from said first inlet to said second inlet, said baffle surface defining a discontinuity in said baffle surface, said discontinuity positioned between said first inlet and said second inlet and defining a fluid passage for separating fluid collected on said baffle surface from gas entering said second inlet, said discontinuity having a length and a width, said length being substantially greater than said width, said length extending in a direction substantially transverse to said flow path; and

- an oil sump disposed within said housing below said fluid passage wherein fluid separated from gas entering said second inlet collects in said oil sump.

29. The compressor of claim 28 further comprising a motor disposed within said housing and a crankcase disposed within said housing and secured relative to said motor, said motor operably coupled to said compressor mechanism and a sheet-like baffle member having a first major planar surface defining said baffle surface, said baffle member secured to said crankcase.

30. The compressor assembly of claim 29 wherein baffle surface is positioned to define a passageway between an interior surface of said housing and said baffle surface.

31. The compressor assembly of claim 29 wherein said motor includes a rotatable shaft coupled to said compressor mechanism, said shaft positioned substantially horizontally.